Slavomír Hanzely

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webpage

EDUCATION

King Abdullah University of Science and Technology, Applied Mathematics and Computational Science[1] (MSc./Ph.D.) 2019-present, MSc. finished in 2020
I work in the research group focused on the Optimization Theory (Stochastic Optimization, Distributed Optimization, Federated Learning); under supervision of Peter Richtárik.

Faculty of Mathematics, Physics and Informatics, Comenius University, Computer Science (BSc.) 2016-2019
I enrolled excessive amount of courses, only in 1st year I got 95 credits (including master's courses; recommended amount for one year - 60). During my BSc. study, I passed 7 Master courses[2] and I unofficially attended (due to the high amount of credits) 8 courses[3]:
Passed all BSc. finals with best grades.

Gymnázium Jána Adama Raymana, Prešov (high school) 2013-2016
Graduation (Maturita) in 6 subjects (only 4 are compulsory), passed with best grades

LAST PROJECTS

- Lower Bounds and Optimal Algorithms for Personalized Federated Learning, NeuRIPS 2020
- Adaptive Learning of the Optimal Mini-Batch Size of SGD, NeuRIPS 2020 workshop, arXiv

ACHIEVEMENTS

Vojtěch Jarník International Mathematical Competition
2017: **8-10th place** in category 1 (first place within Czech and Slovak contestants)

Mathematical Olympiad
2016: **3rd place** on the national round, category A (winner)
Participation on **International Mathematical Olympiad** (IMO)
2015: 18-20th place (**bronze medal**) on Middle European Mathematical Olympiad (MEMO)

Olympiad in Computer Science
2016: 1st place on regional round

WORK EXPERIENCES

Nozdormu (crypto trading company) - internship Jun 2020 - Aug 2020
My goal was to analyze, model and design practical algorithms to optimize resource

[1] Relevant courses that I passed: Special Topics in Data Sciences, Special Topics in Machine Learning, Special Topics in Federated Learning, Probability and Statistics, Stochastic Processes, Advanced Probability, Contemporary Topics in Signal Processing, Combinatorial Machine Learning.
[2] Cryptology, Programming Languages, Probabilistic Methods, Advanced Effective Algorithms, Mathematical Analysis(3), Unstructured Talks on Structures: Chapters in Mathematics for Computer Scientist(1, 2)
[3] Category Theory, Graph Theory, Combinatorial Structures, Markov Processes, Probability Theory, Selected Topics in Data Structures, Selected Topics in Algebra, Matrix Calculus

allocation of the company and implement the developed methods under various constraints.

Mathematical Olympiad 2017 - 2019

- marking problems at the national round of Mathematical Olympiad (3 times)
- organizing a day at the national selection camp for International Mathematical Olympiad — creating problem set and marking the solutions (3 times)
- preparing new format of selection camp for International Mathematical Olympiad and creating problem sets for the whole camp (team of 4 people)

Trojsten — volunteering 2016-2019

- marking solutions of the competitions for talented high school students KMS, KSP and iKS (approximately 600 solutions, 150 hours of work)
- organizing camps for talented high school students in Mathematics and Computer Science - I organized 15 camps (4 of them as the main organizer).
- delivering 36 lectures (including a half-day lecture on the camp iKS)

SKILLS

Programming

- advanced in Python, PyTorch, Julia, Java , C/C++
- experiences with Matlab, R, Haskell, Assembler

HOBBIES

Sport

- ultimate frisbee
  representing Slovak national team on tournmants European Youth ultimate Championship and European Youth ultimate Cup
- in past: ice-hockey, floorball, karate